

invention. It is therefore intended to encompass within the appended claims all such changes and modifications that fall within the scope of the present invention.

What is claimed is:

1. A continuously variable transmission having an input side and an output side and comprising: two conical disk pairs on the input side and two conical disk pairs on the output-side; two endless torque-transmitting means disposed in parallel and extending between and connecting together the input side conical disk pairs and the output side conical disk pairs; wherein the conical disk pairs each have asymmetrical conical angles.

2. A continuously variable transmission in accordance with Claim 1, wherein the two conical disk pairs on the input side and the two conical disk pairs on the output-side each include two outer, axially-fixed conical disks.

3. A continuously variable transmission in accordance with Claim 2, wherein the outer, axially-fixed conical disks have an inwardly-facing conical surface having a cone angle that is less than about 1°.

4. A continuously variable transmission in accordance with Claim 2, including two axially-displaceable inner conical disks positioned between the outer, axially-fixed conical disks, wherein the inner conical disks have a cone angle of between about 10° and about 30°.

5 A continuously variable transmission in accordance with Claim 4, including two actuators positioned between the axially-displaceable conical disks.

6. A continuously variable transmission in accordance with Claim 4, wherein the two axially-displaceable conical disks are designed relatively to each other.

7. A continuously variable transmission in accordance with Claim 4, wherein the two axially-displaceable conical disks are non-rotatably connected with each other via a positive connection.

8. A continuously variable transmission in accordance with Claim 4, including a plurality of centrifugal weights and a transmission disk positioned between the axially-displaceable conical disks, wherein the transmission disk includes spiral grooves for transforming radial movement of the centrifugal weights into rotational movement of the transmission disk, and a thread provided at an inner diameter of the transmission disk for transforming the rotation of the transmission disk into an axial movement of the axially-displaceable conical disks relative to each other.

8. A continuously variable transmission having an input side and an output side and comprising: two conical disk pairs on the input side and two conical disk pairs on the output-side; two parallel endless torque-transmitting means disposed in parallel and extending between and connecting together the input side conical disk pairs and the output side conical disk pairs; wherein the conical disk pairs each have symmetrical

conical angles; and wherein the two conical disk pairs on the input side and the two conical disk pairs on the output-side each have only one axially-fixed conical disk.

10. A continuously variable transmission in accordance with Claim 9, wherein the two central conical disks of the conical disk pair on the input side are connected with each other in one piece.

11. A continuously variable transmission in accordance with Claim 9, wherein two of the three axially-displaceable conical disks of the conical disk pair on the output-side are coupled with each other in an axial direction.

12. A continuously variable transmission in accordance with Claim 11, wherein the two axially-displaceable conical disks of the conical disk pair on the output-side are coupled with each other by threaded bushings.

13. A continuously variable transmission in accordance with Claim 11, wherein the space between the two axially-displaceable conical disks of the conical disk pair on the output-side are radially sealed toward the outside by a telescoping cylinder.

14. A continuously variable transmission having an input side and an output side and comprising: two conical disk pairs on the input side and two conical disk pairs on the output-side; two parallel endless torque-transmitting means disposed in parallel and extending between and connecting together the input side conical disk pairs and

the output side conical disk pairs; wherein several threaded spindles are distributed in a star shape in a radial direction in a displaceable fashion at one of the conical disks between the two conical disks that interact with different endless torque-transmitting means, wherein on said spindles a centrifugal weight each is located in a displaceable fashion and is coupled with a toothed rack so that a rotation of the threaded spindle that is caused by the shift of the corresponding centrifugal weight in the radial direction is transformed into an axial shift of the corresponding toothed rack that is coupled with the other conical disk.

15. A continuously variable transmission having an input side and an output side and comprising: two conical disk pairs on the input side and two conical disk pairs on the output-side; two parallel endless torque-transmitting means disposed in parallel and extending between and connecting together the input side conical disk pairs and the output side conical disk pairs; wherein two conical disks that interact with different endless torque-transmitting means are coupled with each other through a toggle link mechanism to which at least one centrifugal weight is attached in such a way that the two conical disks move toward each other when the centrifugal weight is moved radially outwardly.

16. A continuously variable transmission in accordance with Claim 2, including two axially-displaceable inner conical disks positioned between the outer, axially-fixed conical disks, wherein the inner conical disks have a cone angle of between about 15° and about 20°.

17. A continuously variable transmission in accordance with Claim 2, including two axially-displaceable inner conical disks positioned between the outer, axially-fixed conical disks, wherein the inner conical disks have a cone angle of about 17° .

18. A continuously variable transmission in accordance with Claim 5, wherein the actuators are piston/cylinder units.

19. A continuously variable transmission in accordance with Claim 7, wherein the positive connection is formed by interengaging teeth.